

REMARKS

This communication is considered fully responsive to the Office action mailed March 30, 2004. Claims 1-37 were examined and allowed. Claims 1, 3, 4, 5, 114, 16, 17, 19, 20, 27, and 32 are amended. Claims 18, 21-23, and 37 are cancelled. No claims are added. Reexamination and reconsideration are requested.

The Applicant acknowledges that the Examiner has withdrawn the finality of the previous action.

Claim Rejections – 35 U.S.C. §102(e)

Claims 1-37 stand rejected under 35 U.S.C. §102(e) as being purportedly anticipated by U.S. Published Patent Application No. 2003/0074634 of Emmelmann.

Claim 1 has been amended to recite a hierarchical identifier and “identifying the target server-side control object in the server-side control hierarchy based on the hierarchical identifier of the target server-side control object”. Emmelmann discloses in FIG. 8 (and related descriptions) two ordered operations performed by the ISSC Processor Software: Component Processing operation 37 and Page Generation operation 38. The Component Processing operation 37 processes requests from the client by directing request information to components that are identified in a list of “listening” components that were generated in a previous round trip session. There is no disclosure or suggestion that this list constitutes or even describes a hierarchy of components or server-side control objects. The “list” is merely disclosed in Emmelmann as “an encoded list of value name pairs indicating the values of the form controls” (Emmelmann,

¶[0151]), not as a hierarchy of objects or even a hierarchical data structure. Note: this list of listening components is distinct from Emmelmann’s “cb-list”.

Furthermore, the appropriate component is not identified in a server-side control hierarchy based on a hierarchical identifier. Instead, the appropriate component identified in the list by way of a non-hierarchical identifier called a “bid” – a component type followed by a unique index. See Emmelmann, ¶[0146]. There is no disclosure or suggestion of a hierarchical identifier or identifying the target server-side control object in the server-side control hierarchy based on the hierarchical identifier in Emmelmann. Therefore, Emmelmann fails to anticipate or make obvious the invention of claim 1. Accordingly, the Applicant earnestly requests that claim 1 be allowed.

Claim 2 depends from claim 1, which is believed allowable. As such, claim 2 is believed allowable for at least the same reasons as claim 1, and the Applicant earnestly requests that claim 2 be allowed.

Claim 3, which has been amended into independent form, recites raising a server-side event from the target server-side control object and generating authoring language data from the target server-side control object based on the server-side event. Although Emmelmann discloses client-side events communicated to the server (e.g., “the user triggers an event of a certain ISSC”, “this event will be sent to the server”, “on the server, the event is then passed to the corresponding ISSC object”. Emmelmann, ¶[0026], *emphasis added*), Emmelmann fails to disclose or suggest any server-side events raised by a target server-side control object. Furthermore, Emmelmann fails to disclose or suggest any dependence between generation of authoring language data and a server-side event raised by a target server-side control object. Therefore, Emmelmann fails to

1 anticipate or make obvious the invention of claim 3. Accordingly, the Applicant
2 earnestly requests that claim 3 be allowed.

3 Claim 4, as amended, depends from claim 2 and recites creating a plurality
4 of server-side control objects in a server-side control hierarchy, responsive to
5 receipt of the postback input for the current round trip session, changing a property
6 of a target server-side control object in the created hierarchy, and terminating the
7 plurality of server-side control objects, prior to receipt of other postback input in a
8 subsequent round trip session.

9 In contrast, Emmelmann discloses a very different implementation in
10 FIG. 8. Upon receipt of a request in Emmelmann, the Component Processing
11 operation (37) processes only components that were generated in and persisted
12 from a previous round trip session, not server-side control objects created in
13 response to receipt of postback input for the current round trip session.
14 Furthermore, the Component Processing operation (37) of Emmelmann strictly
15 precedes any generation of components in the Page Generation operation (38) in
16 the current round trip session, and therefore does not operate on a server-side
17 server control object hierarchy generated in the current round-trip session. See
18 Emmelmann, ¶¶[0115]–[0120] and [0127].

19 As such, Emmelmann fails to disclose or suggest creating a plurality of
20 server-side control objects in a server-side control hierarchy, responsive to receipt
21 of the postback input for the current round trip session, changing a property of a
22 target server-side control object in the created hierarchy, and terminating the
23 plurality of server-side control objects, prior to receipt of other postback input in a
24 subsequent round trip session. In fact, the Emmelmann list of listening
25 components includes only persisted components from a previous round trip

1 session. Accordingly, Emmelmann fails to anticipate or make obvious the
2 invention recited in claim 4, and allowance of claim 4 is respectfully requested.

3 Claim 5, which has been amended into independent form, recites searching
4 in a server-side control hierarchy based on an identifier and creating a target
5 server-side control object if the identified object is not found by the search.
6 Although Emmelmann discloses looking up a component object in a list of
7 listening objects, based on a “bid”, the list is flat – no hierarchy is even suggested.
8 Therefore, Emmelmann fails to disclose or suggest searching through a hierarchy
9 for an identifier of a target server-side control object that is to receive postback
10 input. Accordingly, Emmelmann fails to anticipate or make obvious the invention
11 recited in claim 5, and allowance of claim 5 is respectfully requested.

12 Claim 6 depends from claim 1, which is believed allowable. Therefore,
13 claim 6 is also believed allowable for at least the same reasons as claim 1.

14 In addition, claim 6 recites an identifier that has a hierarchical identifier
15 structure indicating a plurality of levels in a server-side control hierarchy.
16 Emmelmann merely describes a “bid”, which is “constructed by the component
17 kind (as an identifier string) followed by the counter value in step (91).”
18 Emmelmann, ¶[0146]. No other identifier is disclosed or suggested in
19 Emmelmann - the “bid” is clearly not hierarchical and does not indicate a plurality
20 of levels in a server-side control hierarchy. Furthermore, Emmelmann also fails to
21 disclose other hierarchy-based operations recited in claims 6, including extracting
22 node level identifiers from the identifier and recursively processing based on the
23 individual node level identifiers in the hierarchical identifier. Accordingly,
24 Emmelmann fails to anticipate or make obvious the invention recited in claim 6,
25 and allowance of claim 6 is respectfully requested.

1 Claim 7 depends from claim 1, which is believed allowable. Therefore,
2 claim 7 is also believed allowable for at least the same reasons as claim 1, and the
3 Applicant earnestly requests that claim 7 be allowed.

4 Claim 8 depends from claim 7, which is believed allowable. Therefore,
5 claim 8 is also believed allowable for at least the same reasons as claim 7, and the
6 Applicant earnestly requests that claim 8 be allowed.

7 In addition, claim 8 recites conditionally indicating a data change
8 associated with the target server-side control object. Emmelmann fails to disclose
9 or suggest conditionally indicating any such data change upon a postback data
10 value. Accordingly, Emmelmann fails to anticipate or make obvious the invention
11 recited in claim 8, and allowance of claim 8 is respectfully requested.

12 Claim 9 depends from claim 8, which is believed allowable. Therefore,
13 claim 9 is also believed allowable for at least the same reasons as claim 8, and the
14 Applicant earnestly requests that claim 9 be allowed.

15 In addition, claim 9 recites conditionally raising a server-side data change
16 event after the old data value is replaced. Emmelmann fails to disclose or suggest
17 indicating any server-side events, much less those that are raised conditionally on
18 a data change. Accordingly, Emmelmann fails to anticipate or make obvious the
19 invention recited in claim 9, and allowance of claim 9 is respectfully requested.

20 Claim 10 depends from claim 7, which is believed allowable. Therefore,
21 claim 10 is also believed allowable for at least the same reasons as claim 7, and
22 the Applicant earnestly requests that claim 10 be allowed.

23 In addition, claim 10 recites conditionally raising a server-side data change
24 event after all old data values are replaced. Emmelmann fails to disclose or
25 suggest indicating any server-side events, much less those that are raised

1 conditionally on a data change. Accordingly, Emmelmann fails to anticipate or
2 make obvious the invention recited in claim 10, and allowance of claim 10 is
3 respectfully requested.

4 Claim 11, which depends from claim 10, is believed allowable for at least
5 the same reasons as claim 10. Furthermore, Emmelmann fails to disclose or
6 suggest invoking a function of a non-user-interface server component based on the
7 server-side data change event. Accordingly, Emmelmann fails to anticipate or
8 make obvious the invention recited in claim 11, and allowance of claim 11 is
9 respectfully requested.

10 Claims 12 and 13 depends, directly or indirectly, from claim 1, which is
11 believed allowable. Therefore, claims 12 and 13 are also believed allowable for at
12 least the same reasons as claim 1, and the Applicant earnestly requests that
13 claim 13 be allowed.

14 Claim 14, which has been amended into independent form, recites raising a
15 server-side event from the target server-side control object. As discussed with
16 regard to claim 3, Emmelmann only discloses issuance of client-side events, which
17 are communicated to the server in an HTTP request, but Emmelmann fails to
18 disclose or suggest any server-side events raised by a target server-side control
19 object. Therefore, Emmelmann fails to anticipate or make obvious the invention
20 of claim 14. Accordingly, the Applicant earnestly requests that claim 14 be
21 allowed.

22 Claim 15 depends from claim 14, which is believed allowable. Therefore,
23 claim 15 is also believed allowable for at least the same reasons as claim 14 and
24 the Applicant earnestly requests that claim 15 be allowed.
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1 As with claim 1, which is believed allowable, claims 16 and 17 have been
2 amended to recite a hierarchical identifier and identifying the target server-side
3 control object in the server-side control hierarchy based on the hierarchical
4 identifier of the target server-side control object. Claims 16 and 17 are believed to
5 be allowable for at least the same reasons as claim 1. Accordingly, the Applicant
6 earnestly requests that claims 16 and 17 be allowed.

7 Claim 18 has been canceled.

8 Claim 19 has been amended into independent form and recites identifying
9 the target server-side control object within the server-side control hierarchy, based
10 on the hierarchical identifier. As discussed with regard to claim 1, Emmelmann
11 fails to disclose or suggest a hierarchical identifier or identifying the target server-
12 side control object in the server-side control hierarchy based on the hierarchical
13 identifier in Emmelmann. Therefore, Emmelmann fails to anticipate or make
14 obvious the invention of claim 19. Accordingly, the Applicant earnestly requests
15 that claim 19 be allowed.

16 Claim 20 depends from claim 19, which is believed allowable. Therefore,
17 claim 20 is also believed allowable for at least the same reasons as claim 19, and
18 the Applicant earnestly requests that claim 20 be allowed.

19 Claims 21-23 have been cancelled.

20 Claim 24 and 26 recite generating “authoring language data including a
21 script that is tagged to be executed by the server to process input data received
22 from the client”. Only client-side scripts are disclosed in Emmelmann:
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1 [0193] The component editor invention introduces a new
2 architecture and various algorithms for WYSIWYG editors in a
3 browser based environment. It can be used to edit arbitrary pages
4 provided they can be displayed using a sophisticated programmable
5 browser, such as a current internet browser. The basic idea is to
6 inserts (sic) scripts into pages so that they can be edited inside the
7 browser.

8 (emphasis added). Emmelmann fails to disclose or suggest server-side scripts that
9 are resident in authoring language generated by server-side control objects and
10 tagged for execution on the server. Therefore, Emmelmann fails to anticipate or
11 make obvious the invention of claims 24 and 26. Accordingly, the Applicant
12 earnestly requests that claims 24 and 26 be allowed.

13 Claim 25 depends from claim 24, which is believed allowable. Therefore,
14 claim 25 is also believed allowable for at least the same reasons as claim 24, and
15 the Applicant earnestly requests that claim 25 be allowed.

16 As is similar with claim 1, which is believed allowable, claims 27 and 32
17 have been amended to recite a hierarchical identifier and identifying, using a
18 hierarchical identifier received from the client. Claims 27 and 32 are believed to
19 be allowable for at least the same reasons as claim 1. Accordingly, the Applicant
20 earnestly requests that claims 27 and 32 be allowed.

21 Claims 28-31 and 33-36 depend from claims 27 and 32 respectively, both
22 of which are believed allowable. Therefore, claims 28-31 and 33-36 are also
23 believed allowable for at least the same reasons as claims 27 and 32, and the
24 Applicant earnestly requests that claims 28-31 and 33-36 be allowed.

25 Claim 37 has been canceled.

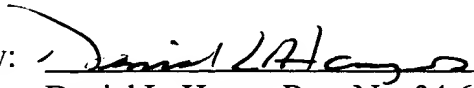
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Conclusion

Based on the amendments and remarks herein, the Applicant respectfully requests prompt issuance of a notice of allowance for claims 1-17, 19-20, and 24-36 in this matter.

Respectfully Submitted,

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